

Abstract

[0021] The subject invention is a circuit for driving a cold cathode tube using a 110V power supply. Power is provided to the cold cathode tube through a direct current converter circuit. A resonance capacitor works in conjunction with the inductive storage device until the start resonance of the tube is attained as directed by a resistor/capacitor (R/C) network. Once the tube starts conducting, another R/C network maintains and controls the circuit at a run resonance. The main driver is an oscillator with a high side and low side MOSFET driver.